

Title (en)
CLAW COUPLING

Title (de)
KLAUENKUPPLUNG

Title (fr)
EMBRAYAGE À GRIFFES

Publication
EP 3088756 A1 20161102 (DE)

Application
EP 15001279 A 20150430

Priority
EP 15001279 A 20150430

Abstract (en)
[origin: US2016319884A1] A claw coupling includes two coupling elements having claws which engage alternately into one another and have confronting concave claw surfaces configured to follow a first circular track. Disposed between the coupling elements is a pressure body arrangement having pressure bodies respectively received between the claws of one coupling element and the claws of the other coupling element. The pressure bodies have convex pressure body surfaces which engage during a torque transmission with the claw surfaces of the claws. Each pressure body surface is configured to follow a second circular track, with the radius of the first circular track and the radius of the second circular track touching one another at a radially innermost point of the claw surface which is disposed on a common straight line having a center point of the first circular track and a center point of the second circular track.

Abstract (de)
Die Erfindung betrifft eine Klauenkupplung, bei der jeweils der Radius (R1) einer ersten Kreisbahn einer Klauenfläche (9, 10) und der Radius (R2) einer zweiten Kreisbahn einer mit dieser Klauenfläche (9, 10) in Eingriff stehenden Druckkörperfläche (13) am radial innersten Punkt (17) der Klauenfläche (9, 10) einander tangieren, und dieser radial innerste Punkt (17) der Klauenfläche (9, 10) auf einer gemeinsamen Geraden (18) mit dem Mittelpunkt (M1) der ersten Kreisbahn und dem Mittelpunkt (M2) der zweiten Kreisbahn angeordnet ist.

IPC 8 full level
F16D 3/68 (2006.01); **F16D 3/74** (2006.01); **F16D 3/78** (2006.01)

CPC (source: CN EP US)
F16D 3/50 (2013.01 - US); **F16D 3/68** (2013.01 - EP US); **F16D 11/00** (2013.01 - CN); **F16D 2011/008** (2013.01 - CN)

Citation (search report)

- [A] DE 6930649 U 19691127 - BARTH HARALD [DE]
- [A] DE 2153411 A1 19730510 - BARTH HARALD
- [A] DE 19919696 A1 20000525 - LOVEJOY INC [US]
- [A] DE 2706034 A1 19780817 - HERWARTH REICH NACHF DIPL ING

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3088756 A1 20161102; **EP 3088756 B1 20170816**; CN 106090051 A 20161109; CN 106090051 B 20181218; ES 2647840 T3 20171226; US 2016319884 A1 20161103; US 9638263 B2 20170502

DOCDB simple family (application)
EP 15001279 A 20150430; CN 201610255847 A 20160421; ES 15001279 T 20150430; US 201615142678 A 20160429